

# LOCAL CLIMATOLOGICAL DATA

## Monthly Summary



NATIONAL WEATHER SERVICE OFC

LATITUDE 37° 30' N LONGITUDE 77° 20' W ELEVATION (GROUND) 164 TIME ZONE EASTERN WBAN #13740

JAN 1982  
 RICHMOND, VIRGINIA

DATE	TEMPERATURE °F					DEGREE DAYS BASE 65°F		WEATHER TYPES 1 FOG 2 HEAVY FOG 3 THUNDERSTORM 4 ICE PELLETS 5 HAIL 6 GLAZE 8 DUSTSTORM 9 BLOWING SNOW	SNOW ICE PELLETS OR ICE ON GROUND AT 07AM INCHES	PRECIPITATION		AVERAGE STATION PRESSURE IN INCHES ELEV. FEET ABOVE M.S.L.	WIND (M.P.H.)				SUNSHINE		SKY COVER (TENTHS)		
	MAXIMUM	MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	AVERAGE DEW POINT	HEATING (SEASON BEGINS WITH JUL)	COOLING (SEASON BEGINS WITH JAN)			WATER EQUIVALENT (INCHES)	SNOW, ICE PELLETS (INCHES)		RESULTANT DIR.	RESULTANT SPEED	AVERAGE SPEED	FASTEST MILE	MINUTES	PERCENT OF TOTAL POSSIBLE	SUNRISE TO SUNSET	MIDNIGHT TO MIDNIGHT	DATE
1	60	38	49	12	43	16	0	1	0	.15	0	29.68	33	9.6	11.9	16	NW	425	74	8	1
2	46	32	39	2	23	26	0	0	0	0	0	30.17	02	6.1	6.8	12	NE	526	91	7	6
3	42	32	37	0	34	28	0	1	6	.47	0	30.06	02	3.9	7.5	17	N	0	0	10	3
4	70	39	55	18	43	10	0	2	0	.43	0	29.56	23	10.1	12.9	30	SW	231	40	8	7
5	52	34	43	6	25	22	0	0	0	0	0	29.91	25	9.8	11.4	23	NW	580	100	2	2
6	56	35	46	9	33	19	0	0	0	0	0	29.88	19	9.5	9.6	21	SW	287	49	10	6
7	72*	38	55*	18	44	10	0	0	8	.10	0	29.75	27	4.4	10.5	23	NE	304	52	7	8
8	44	32	38	1	18	27	0	0	0	0	0	30.00	29	4.0	8.3	14	NE	493	84	4	5
9	43	21	32	-5	14	33	0	0	0	0	0	29.57	26	8.8	11.9	26	NW	192	33	9	7
10	22	7	15	-22	-12	50	0	0	0	0	0	29.75	28	12.7	14.2	26	NW	524	89	3	2
11	16	4	10*	-27	-11	55	0	0	0	0	0	29.80	24	12.1	12.5	18	W	587	100	2	4
12	27	9	18	-19	4	47	0	0	0	0	0	30.08	34	4.3	7.3	11	NW	546	93	5	6
13	27	20	24	-13	22	41	0	1	4 6	.25	1.4	29.82	03	4.6	8.6	16	N	0	0	10	13
14	26	20	23	-14	24	42	0	1	6	.52	5.7	29.44	34	8.7	9.5	16	NW	0	0	10	14
15	28	12	20	-17	16	45	0	1	6 8	7	0	29.72	24	4.0	6.2	13	W	592	100	2	2
16	39	21	30	-8	27	35	0	2	6 8	7	0	29.74	21	9.6	11.5	22	NW	391	66	9	9
17	25	4*	15	-23	-12	50	0	3	0	0	0	30.09	32	4.3	10.1	20	NW	518	87	4	5
18	31	11	21	-17	7	44	0	0	0	0	0	30.08	19	5.3	5.9	14	SW	445	75	9	9
19	29	25	27	-11	23	38	0	2	4 6	.04	T	30.04	03	6.5	7.2	11	NE	0	0	10	19
20	45	25	35	-3	28	30	0	2	4 6 8	3	T	30.04	32	3.3	4.8	8	NW	528	88	9	9
21	34	28	31	-7	29	34	0	1	6 8	.09	0	30.07	02	8.1	8.6	12	N	0	0	10	21
22	29	23	26	-12	22	39	0	1	4 6 8	.13	T	30.38	04	9.4	9.8	12	NE	0	0	10	22
23	37	27	32	-6	31	33	0	1	6	.42	0	29.77	24	1.1	7.9	13	SW	0	0	10	23
24	39	22	31	-7	20	34	0	1	0	0	0	29.54	27	8.4	10.1	18	NW	512	85	4	2
25	33	19	26	-12	19	39	0	1	0	.06	.7	29.80	12	2.0	3.2	18	NE	290	48	10	9
26	29	18	24	-14	12	41	0	1	0	.04	.5	29.98	35	13.4	14.2	24	N	587	96	0	3
27	30	11	21	-17	8	44	0	2	0	0	0	30.25	01	3.0	7.3	15	N	611	100	0	27
28	47	20	34	-4	19	31	0	0	8	0	0	30.04	21	11.7	12.4	21	SW	609	99	5	3
29	49	23	36	-2	18	29	0	1	0	0	0	30.23	36	2.4	4.9	10	N	606	99	2	1
30	53	26	40	2	26	25	0	0	0	0	0	30.11	19	6.2	6.5	14	SW	508	82	10	7
31	67	38	53	15	50	12	0	2	0	.06	0	29.79	17	9.9	10.4	27	SW	246	40	10	10
SUM	SUM					TOTAL	TOTAL	NUMBER OF DAYS		TOTAL	TOTAL	FOR THE MONTH:				TOTAL	%	SUM	SUM		
1247	714					1029	0			2.76	8.3	29.91	28	2.6	9.2	30	SW	11138	FOR	209	204
AVG.	AVG.	AVG.	DEP.	AVG.	DEP.	DEP.	DEP.	PRECIPITATION		DEP.						DATE: 04	POSSIBLE	MONTH	AVG.	AVG.	
40.2	23.0	31.6	-5.9	21	176	0	0			-0.10						18439	60	6.7	6.6		
NUMBER OF DAYS						SEASON TO DATE		SNOW, ICE PELLETS		GREATEST IN 24 HOURS AND DATES				GREATEST DEPTH ON GROUND OF							
						TOTAL	TOTAL	> .01 INCH						SNOW, ICE PELLETS							
						2639	0	THUNDERSTORMS		PRECIPITATION				SNOW, ICE PELLETS							
						0	0	HEAVY FOG		5				5.7							
						0	0	CLEAR		7				PARTLY CLOUDY 7 CLOUDY 17							

\* EXTREME FOR THE MONTH - LAST OCCURRENCE IF MORE THAN ONE.  
 T TRACE AMOUNT.  
 + ALSO ON EARLIER DATE(S).  
 HEAVY FOG: VISIBILITY 1/4 MILE OR LESS.  
 BLANK ENTRIES DENOTE MISSING DATA.

DATA IN COLS 6 AND 12-15 ARE BASED ON 7 OR MORE OBSERVATIONS AT 3-HOUR INTERVALS. RESULTANT WIND IS THE VECTOR SUM OF WIND SPEEDS AND DIRECTIONS DIVIDED BY THE NUMBER OF OBSERVATIONS. ONE OF THREE WIND SPEEDS IS GIVEN UNDER FASTEST MILE: FASTEST MILE - HIGHEST RECORDED SPEED FOR WHICH A MILE OF WIND PASSES STATION (DIRECTION IN COMPASS POINTS). FASTEST OBSERVED ONE MINUTE WIND - HIGHEST ONE MINUTE SPEED (DIRECTION IN TENS OF DEGREES). PEAK GUST - HIGHEST INSTANTANEOUS WIND SPEED (A / APPEARS IN THE DIRECTION COLUMN). ERRORS WILL BE CORRECTED AND CHANGES IN SUMMARY DATA WILL BE ANNOTATED IN THE ANNUAL PUBLICATION.

I CERTIFY THAT THIS IS AN OFFICIAL PUBLICATION OF THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION, AND IS COMPILED FROM RECORDS ON FILE AT THE NATIONAL CLIMATIC CENTER, ASHEVILLE, NORTH CAROLINA, 28801.

*Daniel B. Mitchell*

OBSERVATIONS AT 3-HOUR INTERVALS

JAN 1982  
RICHMOND, VIRGINIA

Table with columns for HOUR L.S.T., SKY COVER (TENTHS), CEILING IN HUNDREDS OF FEET, WHOLE MILES, 16THS MILE, WEATHER, TEMPERATURE (AIR OF, WET BULB OF, DEW POINT OF, REL HUMIDITY %), WIND (DIRECTION, SPEED (KNOTS)), and VISIBILITY (CEILING IN HUNDREDS OF FEET, WHOLE MILES, 16THS MILE, WEATHER, TEMPERATURE, WIND).

WEATHER CODES

- \* TORNADO
T THUNDERSTORM
Q SQUALL
R RAIN
RW RAIN SHOWERS
ZR FREEZING RAIN
L DRIZZLE
ZL FREEZING DRIZZLE
S SNOW
SW SNOW SHOWERS
SG SNOW GRAINS
SP SNOW PELLETS
IC ICE CRYSTALS
IP ICE PELLETS
IPW ICE PELLET SHOWERS
A HAIL
F FOG
IF ICE FOG
GF GROUND FOG
BD BLOWING DUST
BN BLOWING SAND
BS BLOWING SNOW
BY BLOWING SPRAY
K SMOKE
H HAZE
D DUST

CEILING: UNL INDICATES UNLIMITED
WIND DIRECTION: DIRECTIONS ARE THOSE FROM WHICH THE WIND BLOWS, INDICATED IN TENS OF DEGREES FROM TRUE NORTH: I.E., 09 FOR EAST, 18 FOR SOUTH, 27 FOR WEST. AN ENTRY OF 00 INDICATES CALM
SPEED: EXPRESSED IN KNOTS, (MPH = KNOTS X 1.15) IS THE fastest OBSERVED 1-MINUTE VALUE.

## OBSERVATIONS AT 3-HOUR INTERVALS

JAN 1982  
RICHMOND, VIRGINIA

HOUR	L.S.T.	SKY COVER (TENTHS)	VISI-BILITY				TEMPERATURE				WIND			SKY COVER (TENTHS)	L.S.T.	SKY COVER (TENTHS)	VISI-BILITY				TEMPERATURE				WIND			SKY COVER (TENTHS)	L.S.T.	SKY COVER (TENTHS)	VISI-BILITY				TEMPERATURE				WIND																																																											
			CEILING IN HUNDREDS OF FEET	WHOLE MILES	16THS MILE	WEATHER	AIR OF	NET BULB OF	DEW POINT OF	REL HUMIDITY %	DIRECTION	SPEED (KNOTS)	CEILING IN HUNDREDS OF FEET				WHOLE MILES	16THS MILE	WEATHER	AIR OF	NET BULB OF	DEW POINT OF	REL HUMIDITY %	DIRECTION	SPEED (KNOTS)	CEILING IN HUNDREDS OF FEET	WHOLE MILES				16THS MILE	WEATHER	AIR OF	NET BULB OF	DEW POINT OF	REL HUMIDITY %	DIRECTION	SPEED (KNOTS)																																																												
DAY 19																																	DAY 20																																	DAY 21																																
01	7	70	12					28	24	13	53	07	4	10	2	1	F	25	25	25	100	31	7	10	40	6	H	32	31	29	89	07	4	10	4	1	8	F	25	25	23	92	32	6	10	30	7	30	29	27	89	05	5																																													
04	10	30	12					28	25	18	66	03	5	10	4	1	8	F	25	25	23	92	32	6	10	30	7		30	29	27	89	05	5	10	4	1	8	F	25	25	23	92	33	5	10	20	2	ZRF	29	29	29	100	04	9																																											
07	10	25	7					28	26	22	78	01	6	10	6	1	8	F	30	29	27	89	34	6	10	6	2	ZRF	33	32	31	92	01	7	10	10	2		33	32	31	92	01	7	10	10	2	ZRF	33	32	30	89	02	8																																												
10	10	28	3					28	27	24	85	06	8	9	250	2	8	F	38	36	32	79	33	4	10	3	0	F	33	32	30	89	02	8	10	3	0	12	F	33	32	30	89	01	8	10	3	0	12	F	33	32	30	89	01	8																																										
13	10	25	3					28	27	25	89	05	8	7	UNL	4	H	45	40	34	65	00	0	10	4	1	F	32	32	30	89	01	8	10	4	1	8	F	34	33	30	85	00	0	10	4	1	8	F	32	32	31	96	02	11																																											
16	10	5	1					28	27	25	89	03	8	9	UNL	6	H	34	33	30	85	00	0	10	4	1	8	F	30	29	28	92	35	8	10	4	1	8	F	33	32	30	89	01	8	10	4	1	8	F	30	29	28	92	35	8																																										
19	10	2	0					27	27	27	100	04	5	9	250	6	H	33	32	30	89	16	5	10	4	1	8	F	32	32	31	96	02	11	10	4	1	8	F	33	32	30	89	01	8	10	4	1	8	F	30	29	28	92	35	8																																										
22	10	2	0					26	26	26	100	34	6	10	40	6	IPH	33	32	30	89	16	5	10	4	1	8	F	30	29	28	92	35	8	10	4	1	8	F	33	32	30	89	01	8	10	4	1	8	F	30	29	28	92	35	8																																										

RICHMOND VA

82 01

## SUMMARY BY HOURS

HOUR	L.S.T.	AVERAGES								RESULTANT WIND	
		SKY COVER (TENTHS)	STATION PRESSURE (INCHES)	TEMPERATURE			REL HUMIDITY %	WIND SPEED (MPH)	DIRECTION	SPEED (MPH)	
				AIR TEMP OF	WET BULB OF	DEW POINT OF					
01	6	29.90	29	27	20	70	8.5	28	2.1		
04	7	29.91	28	26	19	73	7.9	29	2.5		
07	7	29.93	27	25	19	73	8.2	31	2.9		
10	7	29.95	30	28	20	68	9.9	26	2.2		
13	7	29.89	36	32	22	60	10.8	27	3.6		
16	7	29.87	38	33	23	59	10.0	29	3.6		
19	6	29.90	33	30	22	66	8.8	28	1.5		
22	6	29.91	31	28	21	69	9.2	26	2.9		

HOURLY PRECIPITATION (WATER EQUIVALENT IN INCHES)

JAN 1982  
RICHMOND, VIRGINIA

DATE	A.M. HOUR ENDING AT												P.M. HOUR ENDING AT												DATE
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	
1	.07	.02	.02	.02	.01	.01	T	T																	1
2																									2
3																									3
4	T	T	T	T	.04	.08	.07	.06	.06	.03	.01	.05	.01	.01	.02	.01	T	T	T	T	T	.01	.01	T	4
5					.01	.01	.03	.13	.25	T															5
6																									6
7																									7
8																									8
9																									9
10																									10
11																									11
12																									12
13	.01	.01	.01	.01	T	.01	.01	T	.01	.02	.04	.06	.02	.02	T	.01	.01	T	T	.15	.02	T			13
14														T	.04	.07	.09	.09	.03	.03	.15	.02	T		14
15																									15
16																									16
17																									17
18																									18
19																									19
20																									20
21																									21
22																									22
23	.07	.06	.05	T	.02	.01	.09	.11	T				T	.01	T	T	T	T	T	T	T	.03	.04	.06	23
24																									24
25																									25
26																									26
27																									27
28																									28
29																									29
30																									30
31																									31

MAXIMUM SHORT DURATION PRECIPITATION

TIME PERIOD (MINUTES)	5	10	15	20	30	45	60	80	100	120	150	180
PRECIPITATION (INCHES)	00.08	00.16	00.18	00.21	00.23	00.25	00.30	00.32	00.37	00.41	00.41	00.41
ENDED: DATE	04	04	04	04	04	04	04	04	04	04	04	04
ENDED: TIME	0829	0830	0836	0840	0845	0845	0845	0845	0845	0845	0845	0845

THE PRECIPITATION AMOUNTS FOR THE INDICATED TIME INTERVALS MAY OCCUR AT ANY TIME DURING THE MONTH. THE TIME INDICATED IS THE ENDING TIME OF THE INTERVAL. DATE AND TIME ARE NOT ENTERED FOR TRACE AMOUNTS.

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